



SCREENED DETECTOR AND AMPLIFYING VALVE

**KTZ63/
6J7G**

JULY, 1956

DESCRIPTION

Type KTZ63/6J7G is an indirectly heated Pentode suitable for use as a Detector or in an H.F. or L.F. amplifier. The type may also be employed as a Triode by external connection of the screen grid and anode, in cases where a Triode of medium impedance is desired. The control grid is taken to a top cap connection.

Type KTZ63/6J7G may also be used as an oscillator and as such is of great use in ultra-short wave super-heterodyne receivers.

RATINGS

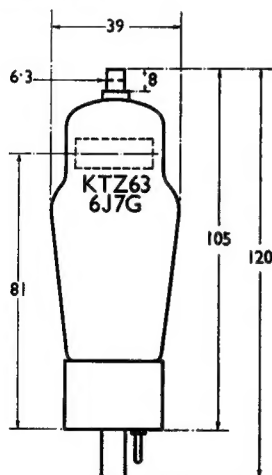
Heater Voltage ...	...	...	...	...	...	6.3	
Heater Current ...	...	...	...	...	...	0.3	amp. approx.
Anode Voltage ...	...	...	...	...	...	250	max.
Screen Voltage ...	...	...	...	...	...	125	max.
Mutual Conductance* ...	...	...	...	...	...	1.23	mA/volt

*measured at V_a 250 ; V_{g2} 100 ; V_{g1} -3.

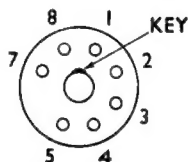
Capacitances (As pentode) :

Grid to All ...	...	...	...	...	...	4.7	pF approx.
Anode to All ...	...	...	...	...	...	9.9	" "
Anode to Grid ...	...	...	...	...	...	0.0038	" "

DIMENSIONS



BASE



View looking on
underside of base.

7 Pin "Octal"

- 1 : Internal Metallic Screen
- 2 : Heater
- 3 : Anode
- 4 : Screen Grid g_2
- 5 : Suppressor Grid g_3
(6J7G only)

- 7 : Heater
- 8 : Cathode

Top Cap : Control Grid g_1

Note : Care should be taken to note the difference in pin connections between type KTZ63/6J7G and the "Kinkless tetraode" type KTZ63. The latter has suppressor plates joined internally to cathode, pin 5 in this case having no connection.

Supplied with unmetallised bulb only.

All dimensions are in m/m and are max. except where otherwise stated.

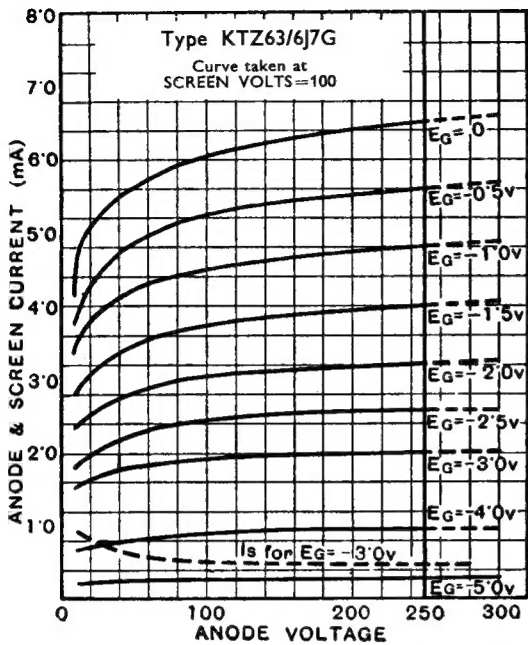
OPERATING CONDITIONS

							Pentode connected	Triode connected G_2 to A G_3 to K
Anode Voltage ...	...	...	...	...	...	...	250	250
Screen Voltage ...	...	...	...	...	...	...	100	—
Anode Current, mA ...	...	...	...	...	...	...	1.0	3
Screen Current, mA ...	...	...	...	...	...	...	0.25	—
Grid Bias Voltage ...	...	...	...	...	...	...	-2	-3
Impedance, ohms ...	...	...	...	...	...	...	1.5 meg.	10,500
Cathode Bias Resistance, ohms ...	...	...	...	...	...	...	2,200	1,000
Optimum Load in Resistance Amplifier, ohms ...	...	...	...	...	...	...	250,000	50,000
Screen Resistance, ohms ...	...	...	...	...	...	...	1 meg.	—

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Head Office: Marconi House, Chelmsford . Telephone: Chelmsford 3221 . Telegraphic Address: Expanse, Chelmsford

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6J7G**



CHARACTERISTIC CURVES OF
AVERAGE VALVE.

